

DATE: 03/21/2012

To:	NAVFAC MIDLANT Mr. Greg Pearman gregory.pearman@marines.usmc.mil	From:	Don Conger, PE, AGVIQ-CH2M HILL (Contractor) Don.Conger@ch2m.com
CC:	christopher.shukis@navy.mil Lora.Fly@navy.mil	CC:	Jim.Nicotri@ch2m.com smatney@tikigaq.com Amy.Wolff@ch2m.com

SUBMITTAL INFORMATION	
Submittal No.:	041 331100-1 Buried Check Valve
<input checked="" type="checkbox"/> New Submittal	<input type="checkbox"/> Resubmittal
Project:	Interim Emergency Wellhead Treatment Aqua-NY Water Treatment Facility
Project No.:	N62470-08-D-1006, TO No.: WE23
Specification Section No.:	33 11 00
Date of Submittal:	3/21/2012

SUBMITTAL TYPE:		
<input checked="" type="checkbox"/> Shop Drawing	<input type="checkbox"/> Sample	<input type="checkbox"/> Informational
<input type="checkbox"/> Material Data	<input type="checkbox"/> Proposed Substitution	<input type="checkbox"/> Other

The following items are hereby submitted:

Number of Copies	Description of Item Submitted (Type, Size, Model Number, Etc.)	Spec. and Para. No.	Drawing or Brochure Number	Contains Variation to Contract	
				No	Yes
1	Pratt RD-Series Check Valve – 12-inch	33 11 00, X		<input type="checkbox"/>	<input checked="" type="checkbox"/>

The following information about the submission is hereby provided:

Buried Check Valve
The submitted buried check valve is not specified in the contract documents. TetraTech recommended this model check valve instead of the specified swing check valve. The swing check valve could not be installed as designed, as it is not designed to be buried. The submittal is hereby submitted to the Government for your approval.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.

OICC/ROICC

U.S. NVAL SUBMITTAL CASE, NEW LONDON, CONNECTICUT

Contract No.

Specs. Sec.

Submittal No.

Approved

Disapproved

Approved as Noted

No Action Taken

CONTRACTOR (Authorized Signature)

Subject to the Requirements of Contract Plans & Specs.

Resubmission. Is Is not required.

checked by

Date 22 Mar 12

Page 1 of 1

Dated

Date

For OICC/ROICC

WB-P06-006211-F1
Form Rev. 1: April-2011

Submittal Review Comments Checklist

PROJECT DATA			
Project Name:	Interim Emergency Wellhead Treatment Aqua-NY	Client:	Naval Facilities Engineering Command, Mid-Atlantic
Project No.:	N62470-08-D-1006 TO No.: WE23	Project Location:	Seamans Neck Road, Levittown, New York
Inspection Date:	3/21/2012	Inspector:	Don Conger, CH2M HILL
Report No:	041	Contractor:	AGVIQ-CH2M HILL

SUBMITTAL DETAILS					
Submittal No.:		041 331100-1 Buried Check Valve			
Specification Section:		33 11 00	Reviewer Name:		Don Conger, CH2M HILL
Description:		Buried Check Valve	Page:		33 11 00 - x
Submittal Type:		<input checked="" type="checkbox"/> Shop Drawing <input type="checkbox"/> Sample <input type="checkbox"/> Information			
Approval:		<input checked="" type="checkbox"/> 1. Approved <input type="checkbox"/> 2. Approved as noted <input type="checkbox"/> 3. Partial Approval – Resubmit as Noted (resubmittal required) <input type="checkbox"/> 4. Revise and Resubmit <input type="checkbox"/> 5. Not subject to review (resubmittal required)			

[illegible]



Philip Ross Industries, Inc.

200 Long Island Avenue
Wyandanch, NY 11798
Ph : (631) 253-3077
Fax: (631) 253-0180

Letter of Transmittal

To: Stephen Matney
AGVIQ, LLC
4610 Westgrove Court
Virginia Beach, VA 23455
Subject: Submittal

Transmittal #: 21
Date: 3/21/2012
Job: 12-003 AGVIQ-Seaman's Neck Rd

WE ARE SENDING YOU

<input checked="" type="checkbox"/> Attached	<input checked="" type="checkbox"/> Under separate cover via the following items:		
<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Samples
<input type="checkbox"/> Copy of letter	<input type="checkbox"/> Change order	<input type="checkbox"/> Specifications	<input checked="" type="checkbox"/> Submittal

Document Type	Copies	Date	No.	Description
Submittal	1	3/21/12	400513-2 Rev 1	Swing Check Valve Product Data

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ___ copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit Installation/O&M Manuals |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Submit Required Warranty Upon Completion |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Other | |
| <input type="checkbox"/> FOR BIDS DUE | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

Remarks: This submittal was originally sent on 2/15/12. Though it has not been approved as yet we are submitting a revision.

'Tammi Holley'; 'Jim.Nicotri@CH2M.com'; 'Randy Grogan'; 'Don.Conger@CH2M.com'; 'prossisabelle@optonline.net'

Copy To:

From: Margaret A. Davis (Philip Ross Industries, Inc.)

Signature: Margaret A. Davis

PRATT

Henry Pratt Company

401 S. Highland Avenue

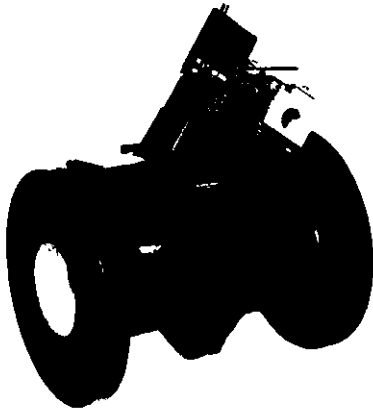
Aurora, IL 60506

Phone: 877-436-7977

Fax: 630-844-4124

www.henrypratt.com

RD-Series™ Check Valve



Construction Specifications:

Sizes: 2" through 24" flanged ends
3" through 16" mechanical joint ends

Body: Ductile Iron

Disc: Buna-N encapsulated steel

Seat: 45° non-slam seat

The Pratt RD-Series™ Check Valve has only one moving part: a resilient disc reinforced with steel. This simple, innovative valve provides dependable, maintenance free performance, and quiet operation with its inherent non-slam construction. The large, unobstructed flow path makes the valve an excellent choice for wastewater as well as water applications. The design has undergone a rigorous 1,000,000 continuous cycle test with no signs of wear or distortion to the valve disc or seat. All sizes have a 250 psi rating.

Features

Body

Ductile Iron in ASTM A-536 Grade 65-45-12, and features a full flow area providing 100% unrestricted flow and low head loss. Flanges are in full compliance with ANSI B16.1, Class 125.

Bonnet

Ductile iron domed access bonnet allows for easy removal and inspection of the flexible disc assembly.

Disc

The only moving part, featuring a fully Buna-N encapsulated steel disc with nylon reinforcement in the flex area. The molded elastomer with integral O-ring ensures a bubble-tight shut off, without backflow.

Body Seat

Constructed on a 45 degree angle to reduce the travel of the disc to the full open position; significantly reducing the potential for water hammer.

Flow

The flow area is equal to or greater than the equivalent pipe size throughout, resulting in low head losses, compared to other types of check valves.

Installation

Suitable for both horizontal and vertical pipelines with flow upward.

Coatings

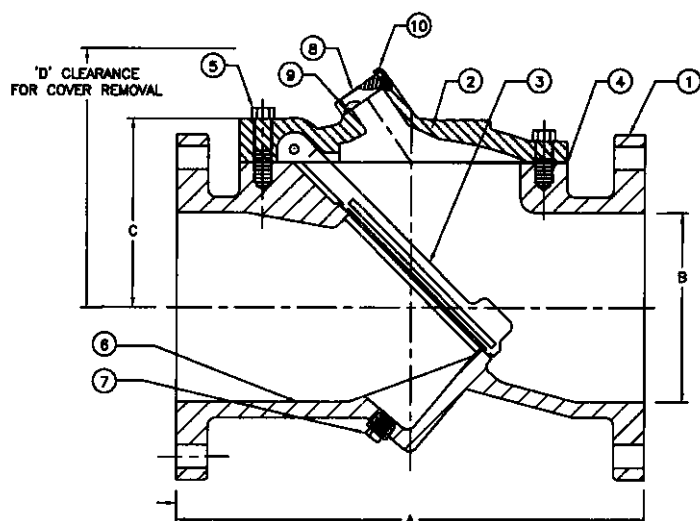
The valve interior is fully coated with liquid thermosetting epoxy suitable for use in potable water service. The exterior is provided as standard with a universal primer enamel suitable for coating in the field. Special coatings can be furnished on request.

Accessories/Options

- Disc position indicator
- External backflow device - to manually open disc
- Proximity limit switch - to transmit an electrical signal to indicate when disc is open or closed
- EPDM disc option
- Stainless steel cover bolts

Materials of Construction

Item	Qty	Description	Material	ASTM Designation
1	1	Body	Ductile Iron	ASTM A-536-GR 65-45-12
2	1	Bonnet	Ductile Iron	ASTM A-536-GR 65-45-12
3	1	Disk	Steel/Buna-N	ASTM-A36 D2000 BK 807
4	1	Gasket	Rubber (Buna N)	D2000 BK 807
5	AR	Cap Bolts	Steel/Zinc	SAE Grade 5 - Zinc Plated
6	1	Interior Lining	Epoxy	—
7	1	Plug	Ductile Iron	ASTM A-536-GR 65-45-12
8	1	Boss Cover	Ductile Iron	ASTM A-536-GR 65-45-12
9	1	O-Ring	Rubber (Buna)	D2000 BK 807
10	4	Boss Cover Bolts	Steel/Zinc	SAE Grade 5 - Zinc Plated



Flanges are per ANSI B16.1 Class 125/150 Flat Faced

*Mechanical joint drawings and dimensions are available at www.henrypratt.com

**Dimension 'D' Clearance
Required to Remove Access Cover**

Valve Size	A	B	C	D
2	8.0	2.0	3.38	8.38
2-1/2	8.5	2.5	3.38	8.38
3	9.5	3.0	3.88	9.00
4	11.5	4.0	4.63	9.63
5	13.75	5.0	5.13	10.25
6	15.0	6.0	5.88	11.00
8	19.5	8.0	7.63	13.75
10	24.5	10.0	9.88	16.00
12	27.5	12.0	11.38	18.50
14	31.0	14.0	13.38	20.50
16	32.0	16.0	15.38	23.50
18	36.0	18.0	17.13	25.25
20	40.0	20.0	19.13	29.25
24	48.0	24.0	22.75	32.75

Suggested Specification

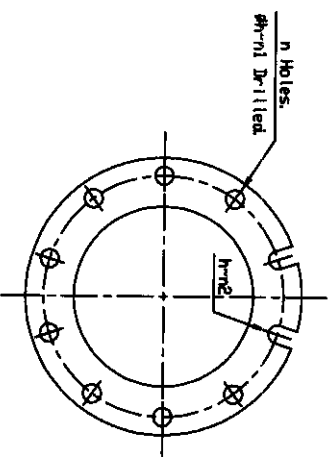
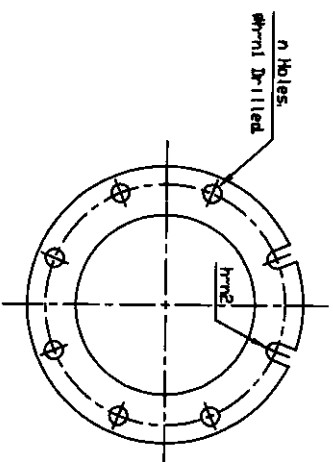
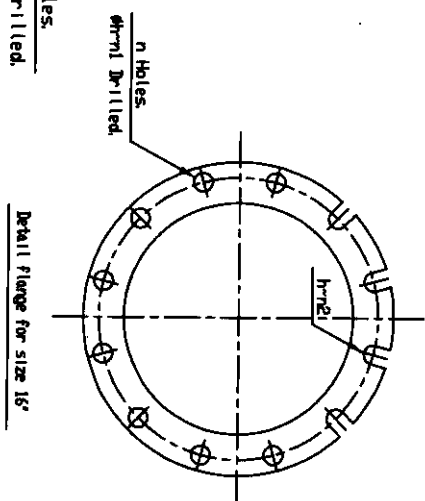
Check valve shall be of the flanged, full body type with no internal moving parts except for the resilient disc. The flanged ends shall be manufactured in accordance with ANSI B16.1 Class 125. Valves shall be rated to 250 psi for all sizes.

The valve body shall be constructed of ductile iron ASTM A-536 Grade 65-45-12 with flow area equal to the nominal pipe inside diameter throughout the valve. Seat shall be constructed on a 45 degree angle to reduce disc travel. The seat and internal body shall be fully coated with a two part thermosetting epoxy suitable for use in both potable water and wastewater applications.

The domed bonnet shall be manufactured of ductile iron ASTM A-536 Grade 65-45-12. The bonnet-to-body seal shall be provided by a gasket to allow easy removal and replacement of the access bonnet. Bonnet bolting shall be SAE Grade 5.

The resilient disc shall feature a fully encapsulated steel pressure plate with integral molded O-ring on the face of the elastomer. Nylon reinforcements shall be provided in the flexible hinge area of the disc assembly.

If requested the manufacturer shall furnish certified results of a proof of design test performed at an independent testing laboratory. Testing shall include a million-cycle continuous test to demonstrate the durability of the flexible connection.



SIZE Ød in. mm.	L	ØD	ØC	Ød1	Øh	n	h	n1	n2	T
3 (80)	13	7.69	6.19	4.06	3/4	4	3/4	2	2	0.94
4 (100)	14.96	9.12	7.50	4.90	7/8	4	7/8	2	2	1
6 (150)	19.3	11.12	9.50	7	7/8	6	7/8	4	2	1.06
8 (200)	23.81	13.37	11.75	9.15	7/8	6	7/8	4	2	1.12
10 (250)	28.34	15.69	14	11.20	7/8	8	7/8	6	2	1.19
12 (300)	33	17.94	16.25	13.30	7/8	8	7/8	6	2	1.25
14 (350)	35	20.31	18.75	15.44	7/8	10	7/8	8	2	1.31
16 (400)	37	22.56	21	17.54	7/8	12	7/8	8	4	1.38

- End flanges mechanical joint conform to ANSI/ASME C11.1/A2.11

Detail flange for size 10', 12'

3002	Cover Bolt	Stainless Steel	A 276 Type 304	1
004	Cover Gasket	Rubber (Buna N)	D 200 BK 807	1 set
003	Disc	Steel & Rubber/Buna N	1 5/8" BK 707	1
002	Bonnet	Ductile Iron	A 536 Grade 65-45-12	1
001	Body	Ductile Iron	A 536 Grade 65-45-12	1
N/L	PARTS	MATERIAL	ASTM DESIGNATION	QTY

500 PSI

250 PSI

100

HENRY PRATT COMPANY
AURORA, ILL.

RUBBER FLAPPER CHECK VALVE

SIZE 3' (80) - 16' (400)

SCALE NONE DATE 9-14-10

DRAWN BY TQF CHECKED BY _____

APPROVED

DRWG. NO. GA-1845B

REV 0 A/C